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TITLE : PRODUCTION OF LUBRICATIVE SINTERED METAL BODY

ABSTRACT : PURPOSE: To produce the captioned metal body of superior lubricity by mixing the MoS_2 powder and granules covered with Cu into sintered metal material, molding the mixture and sintering the same in a hydrogen atmosphere.

CONSTITUTION: MoS_2 powder and granules are coated with Cu of 10-30%. The Cu-coated MoS_2 powder and granules are compounded and mixed at about 2-7% in sintered metal material and the mixture is molded. The molding is sintered in a hydrogen atmosphere at the temperature around 800°C in the case of Cu-base sintered material and at around 1100°C in the case of Fe-base sintered material. After sintering treatment, MoS_2 is suitably exposed and since there is no change of properties of MoS_2 to MoO_3 , the sintered metal body of superior lubricity may be obtained.

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